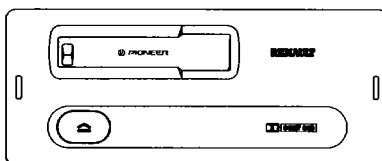


# Service Manual

 **PIONEER**  
The Art of Entertainment  
**RENAULT**

KPX-1056ZRN/WL



ORDER NO.  
**CRT1880**

CASSETTE PLAYER

# KPX-1056ZRN <sup>WL</sup>

# KPX-1056ZRN <sup>X1B/WL</sup>

VEHICLE	DESTINATION	PRODUCED AFTER	RENAULT PART No.	ID No.	PIONEER MODEL No.
MATRA ESPACE	EUROPE	JULY 1996	6025 30 1091	—	KPX-1056ZRN/WL KPX-1056ZRN/X1B/WL

## NOTE:

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- See the separate manual CX-529(CRT1507) for the cassette mechanism description.
- The cassette mechanism employed in this model is one of 1L mechanism series.

## CONTENTS

1. SPECIFICATIONS.....	2	6. ELECTRICAL PARTS LIST .....	5
2. CONNECTOR FUNCTION DESCRIPTION .....	2	7. CIRCUIT DIAGRAM AND PATTERN .....	6
3. DISASSEMBLY .....	2	8. EXPLODED VIEW AND PARTS LIST .....	12
4. CAR AUDIO SYSTEM.....	3	9. PACKING METHOD .....	16
5. IC INFORMATION.....	4		

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## 1. SPECIFICATIONS

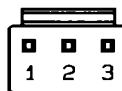
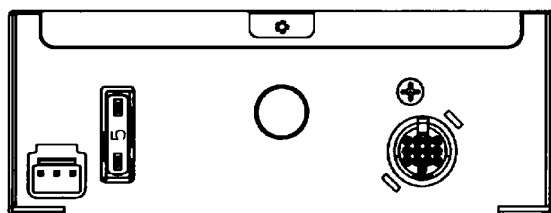
### General

Power source ..... 14.4 V (10.5 — 16.0 V)  
 Grounding system ..... Negative type  
 Dimensions  
 (mounting size) ..... 135 (W) × 50 (H) × 142 (D) mm  
 (front face) ..... 147 (W) × 60 (H) × 9.5 (D) mm  
 Weight ..... 1.0 kg

### Tape player

Tape used ..... Compact cassette tape  
 Max. 90 minutes (C-90)  
 Tape speed ..... 4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.)  
 Wow and flutter ..... 0.09 % (WRMS)  
 Fast forward/rewind time ..... Approx. 100 sec. (C-60)  
 Frequency characteristics ..... 30 — 15,000 Hz (±3 dB)  
 S/N (IHF-A network) ..... DOLBY B NR OFF  
 60 dB (chrome/metal tape)  
 DOLBY B NR ON  
 66 dB (chrome/metal tape)  
 Stereo separation ..... 40 dB

## 2. CONNECTOR FUNCTION DESCRIPTION



1.	ISO. GND
2.	LCH
3.	ISO. GND
4.	RCH
5.	BUS. GND
6.	BUS. GND
7.	MUTE
8.	BUS. GND
9.	BSRQ
10.	BRST
11.	BRXEN
12.	BDATA
13.	BSCK

1.	GND
2.	ILL
3.	BUP

Fig. 1

## 3. DISASSEMBLY

### ● Removing the Case(not shown)

1. Insert and turn a flat screwdriver to remove the case.

### ● Removing the Cassette Mechanism Module (not shown)

1. Remove the four screws.
2. Disconnect the connector.
3. Remove the cassette mechanism module.

### ● Removing the Grille Assy(Fig. 2)

1. Disconnect the five stoppers indicated by arrows.
2. Remove the grille assy.

### ● Removing the Cassette Deck Unit(Fig. 2)

1. Remove the two screws
2. Unbend the tabs at two locations indicated by arrows until straight.
3. Raise up on cassette deck unit to remove it from chassis unit.

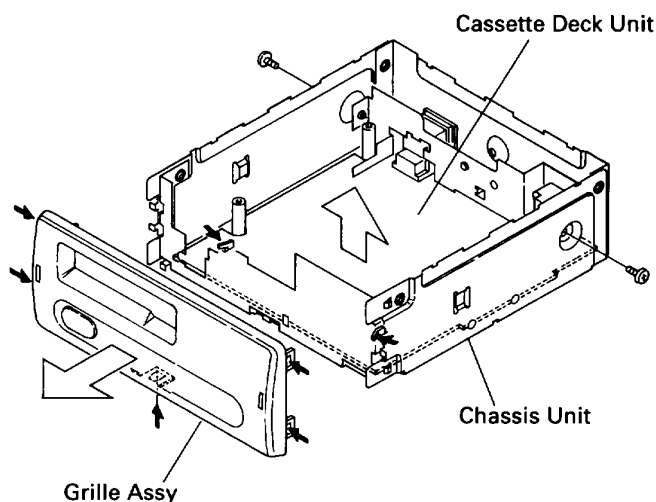


Fig. 2

4. CAR AUDIO SYSTEM

CAR AUDIO SYSTEM FOR RENAULT ESPACE

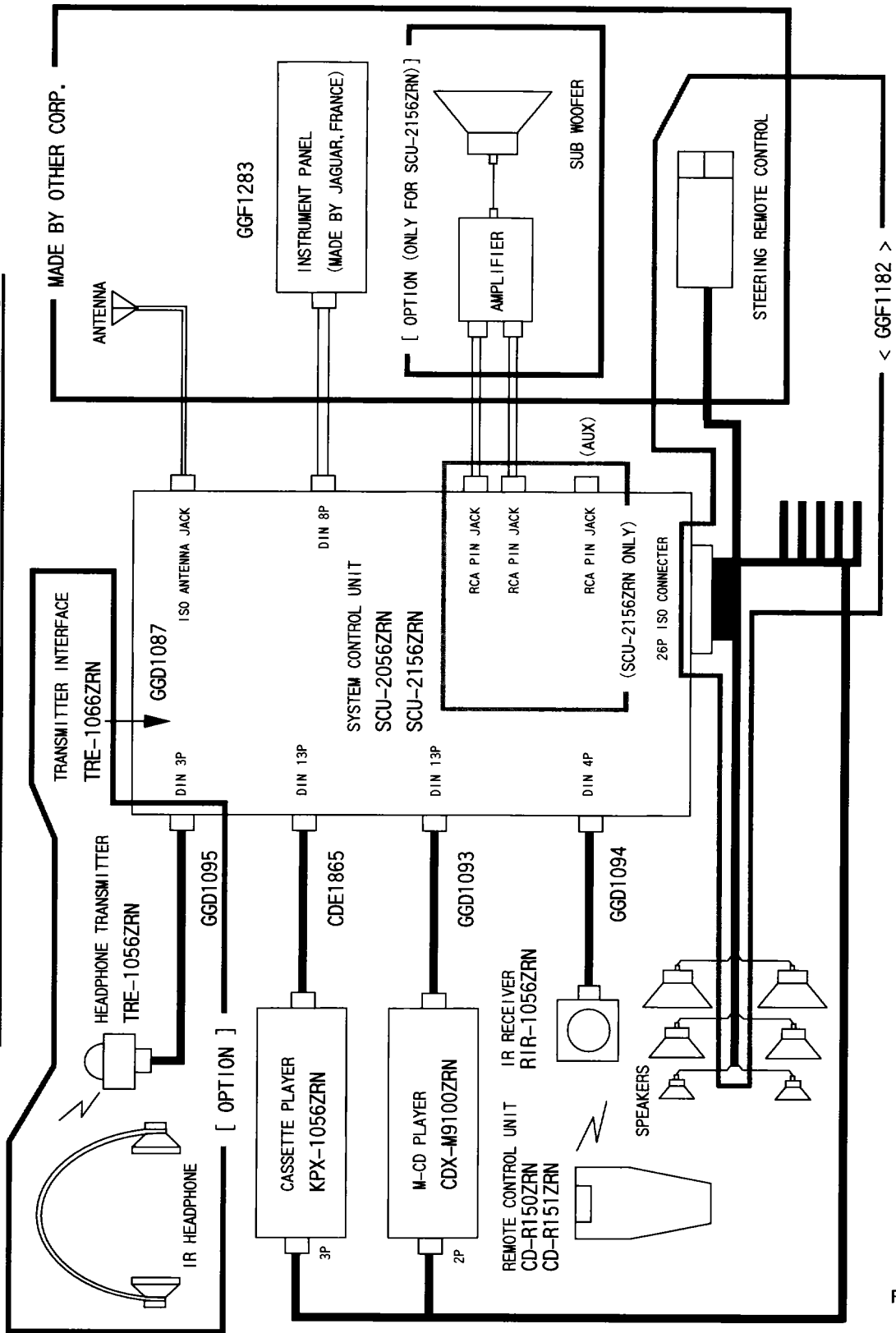


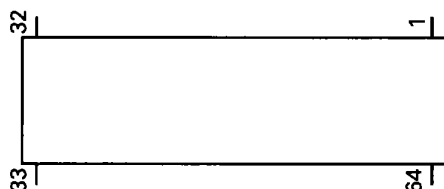
Fig. 3

## 5. IC INFORMATION

### ● Pin Functions(PD4529A)

Pin No.	Pin Name	I/O	I/O Format	Function and Operation
1	STDBY	O	C	PA2022 standby control
2	DMUTE	O	C	Deck mute
3	NC			Open
4	BRXEN	I/O	C	Reception enable input/output
5	BSRQ	O	C	Service request output
6	BSI	I		Serial data input
7	BSO	O	C	Serial data output
8	BSCK	I/O	C	Serial clock input/output
9-16	NC			Open
17	VSS			GND
18	MTLSW	I		70 $\mu$ tape switch detector
19	LOADSW	I		Loading switch detector
20	MSIN	I		Music search sense
21	NES	I		Normal reel sense
22	RES	I		Reverse reel sense
23	POS	I		Position reel sense
24, 25	NC			VSS connection
26-31	NC			Open
32	VSS			GND
33-42	NC			Open
43	RESET	I		Reset input
44	NC			VSS connection
45	BSENS	I		Back up sense input
46	BRST			Terminal reset
47	EJECT	I		Eject key
48	VDD			Power supply
49, 50	X2, 1			Crystal oscillator connection
51	IC			VSS connection
52	XT2			Open
53	TESTIN	I		Test program input
54	AVSS			VSS connection
55	CM	O	C	Capstan motor control output
56, 57	SC1, 2	O	C	Sub motor control 1, 2
58	PLAY	O	C	Music search gain select
59	DIRO	O	C	Head normal/reverse select
60	NR	O	C	NR ON/OFF select
61	DLBYBC	O	C	Dolby B/C select
62	TAPPW	O	C	Power supply control
63	AVDD			VDD connection
64	AVREF			VSS connection

\*PD4529A



Format	Meaning
C	C MOS

IC's marked by\* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

## 6. ELECTRICAL PARTS LIST

### NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
Unit Number : CWM3732(KPX-1056ZRN/WL)		C 960	CEAS471M16
UWM3732(KPX-1056ZRN/X1B/WL)		C 961	CEAR22M50LS2
Unit Name : Cassette Deck Unit		C 962	CEA220M6R3LS
		C 969	CASAQ100M6R3
		C 970	CASAQ100M10
MISCELLANEOUS		Unit Number : CWM3792	
IC 751	PD4529A	Unit Name : Deck Unit	
IC 851	BA3121		
IC 951	PAJ001A		
IC 952	NJM2930-85B	MISCELLANEOUS	
Q 851 852	DTC343TS	IC 251	HA12163
		IC 351	PA2020A
Q 855	DTA124ES	Q 271	2SC4116
Q 951	2SD1859	Q 351	2SB1260
Q 953	2SB1238	Q 352	2SC4102
Q 954 960	DTC124ES		
Q 955	2SC2458	D 351	MA141K
		VR 301 302	CCP1130
D 751 752 753 754 755 756 757 758 759 760	1SS133		
D 851 852 956	1SS133		
D 951	ERC05-10BE3	RESISTORS	
D 960	ERA15-02VH	R 251 252 253 254	RS1/10S104J
L 751	LAU150K	R 255 256	RS1/10S181J
		R 257 258 271	RS1/10S183J
L 951	Coil	R 259 260	RS1/10S133J
X 751	Ceramic Resonator 4.190MHz	R 261 262 403 405	RS1/10S274J
S 752	Switch(Eject)		
IL 951	Lamp 14V 40mA	Unit Number :	
EF 951	EMI Filter	Unit Name : Mechanism P.C.Board	
RESISTORS		S 1 2	Switch(70 $\mu$ , Load)
R 751 752 753 754 755 787	RD1/4PU681J	EGN 1 2	Photo-Reflector
R 756 961	RD1/4PU563J	R 1	
R 757 758 759 773 774 775 776 777 778 779	RD1/4PU473J	R 2	
R 760 855 962 966	RD1/4PU104J		
R 766 767 768 769 770 771 772 781 782 783	RD1/4PU102J	Miscellaneous Part List	
		FU 1	Fuse 5A
R 784 785 786	RD1/4PU102J	HD 1	Head Assy
R 788 963 964 967 968	RD1/4PU473J	M 1	Motor(Main)
R 789	RD1/4PU105J	M 2	Motor(Sub)
R 790	RD1/4PU101J	EGN 3	Photo-Interrupter
R 851 852	RD1/4PU122J		
R 853 854 953	RD1/4PU223J		
R 951 952 954	RD1/4PU472J		
R 955	RD1/4PU222J		
R 956	RD1/4PU120J		
R 960 965	RD1/4PU154J		
CAPACITORS			
C 752 857 957	CKPYY103M16L		
C 753	CEA470M6R3LS		
C 756	CEA101M10LS		
C 757 758 759 760 761	CKPYB221K50L		
C 851 852	CEALNP100M10		
C 853 854 858	CEA010M50LS2		
C 855	CEA470M16LS		
C 856	CEA4R7M25LS2		
C 951 956	CEA100M16LS2		
C 952	CEAS222M16		

## 7. CIRCUIT DIAGRAM AND PATTERN

### 7.1 CASSETTE DECK UNIT

#### ● Connection Diagram

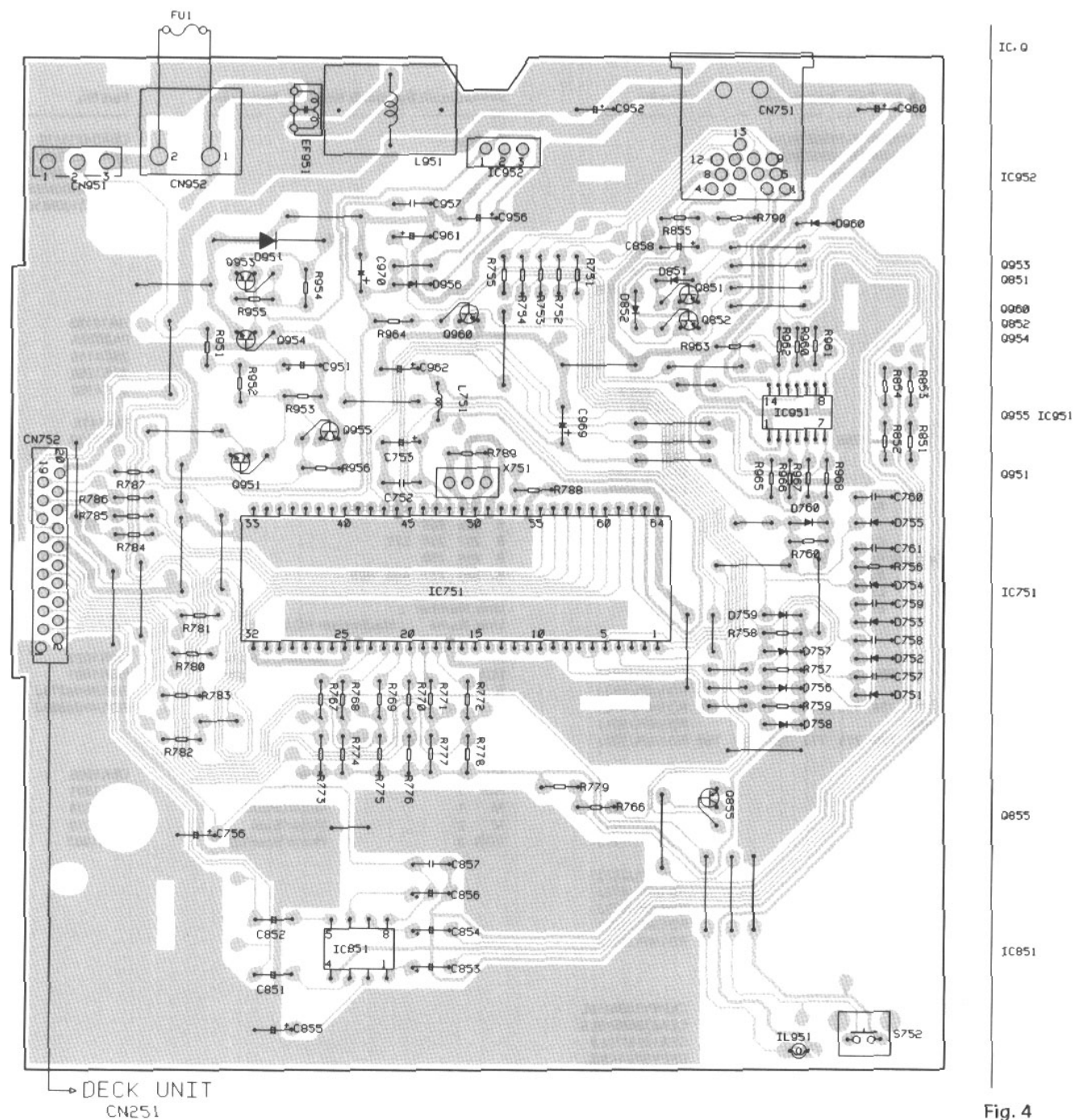


Fig. 4

DECK UNIT CN251

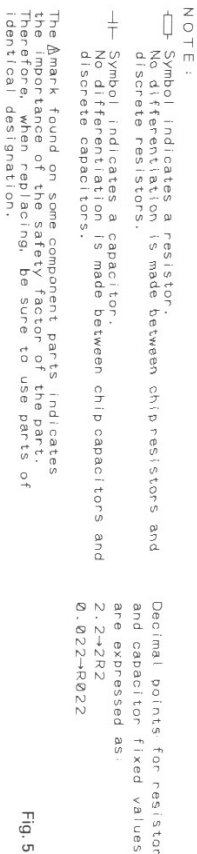


Fig. 5





### ● Connection Diagram

DECK UNIT

IC. Q Q352

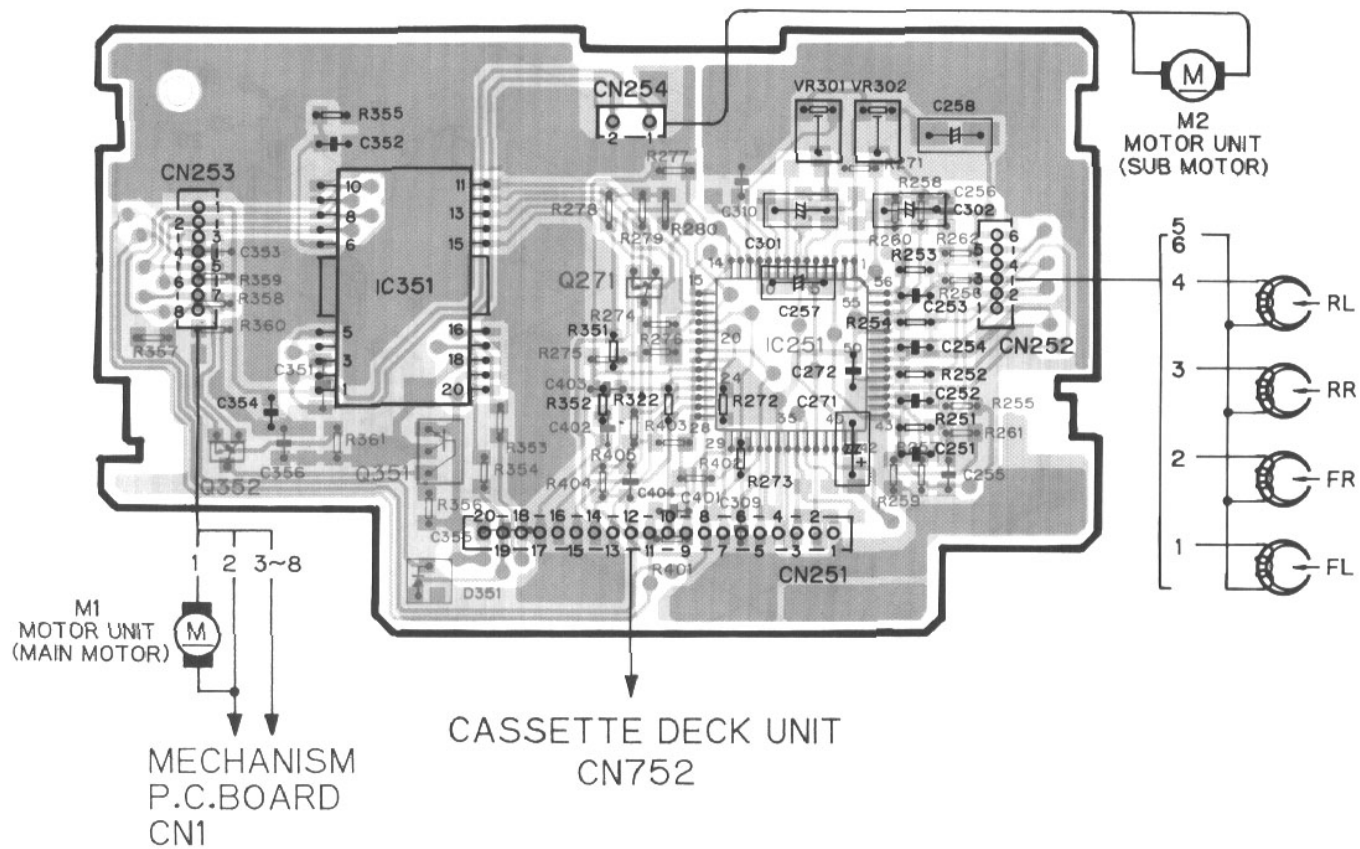
IC351 Q351

Q271

IC251

ADJ

VR301 VR302



### MECHANISM P.C.BOARD

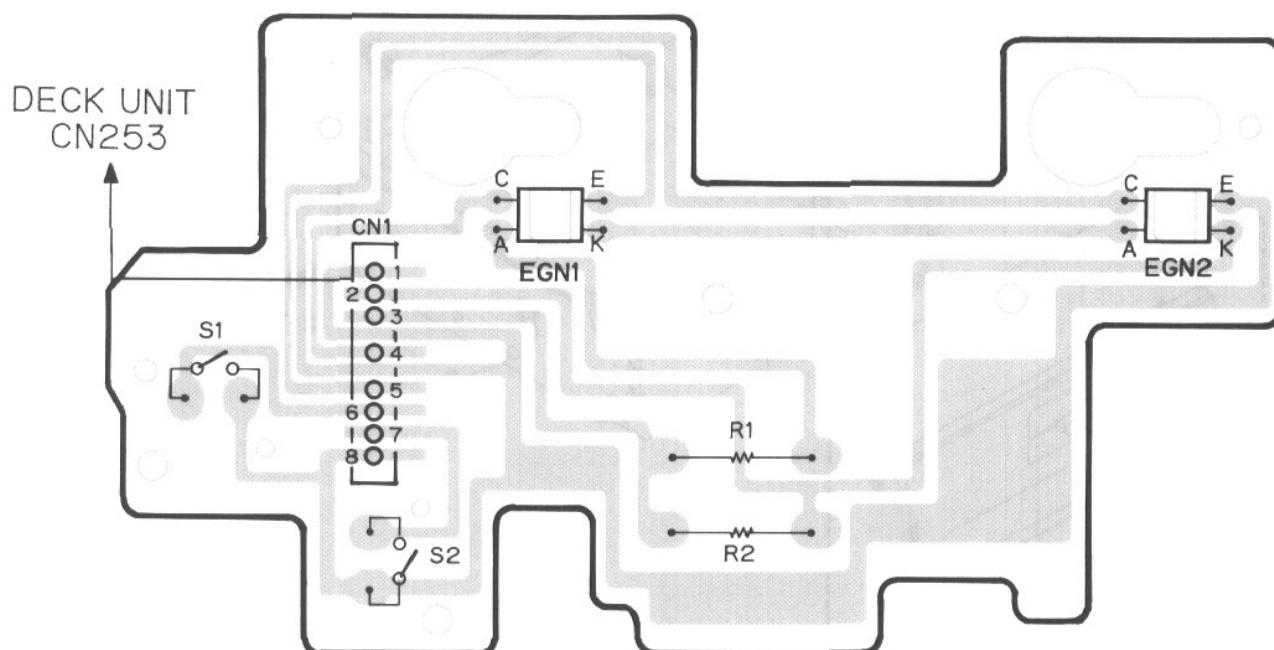


Fig. 7

8. EXPLODED VIEW AND PARTS LIST

8.1 CHASSIS

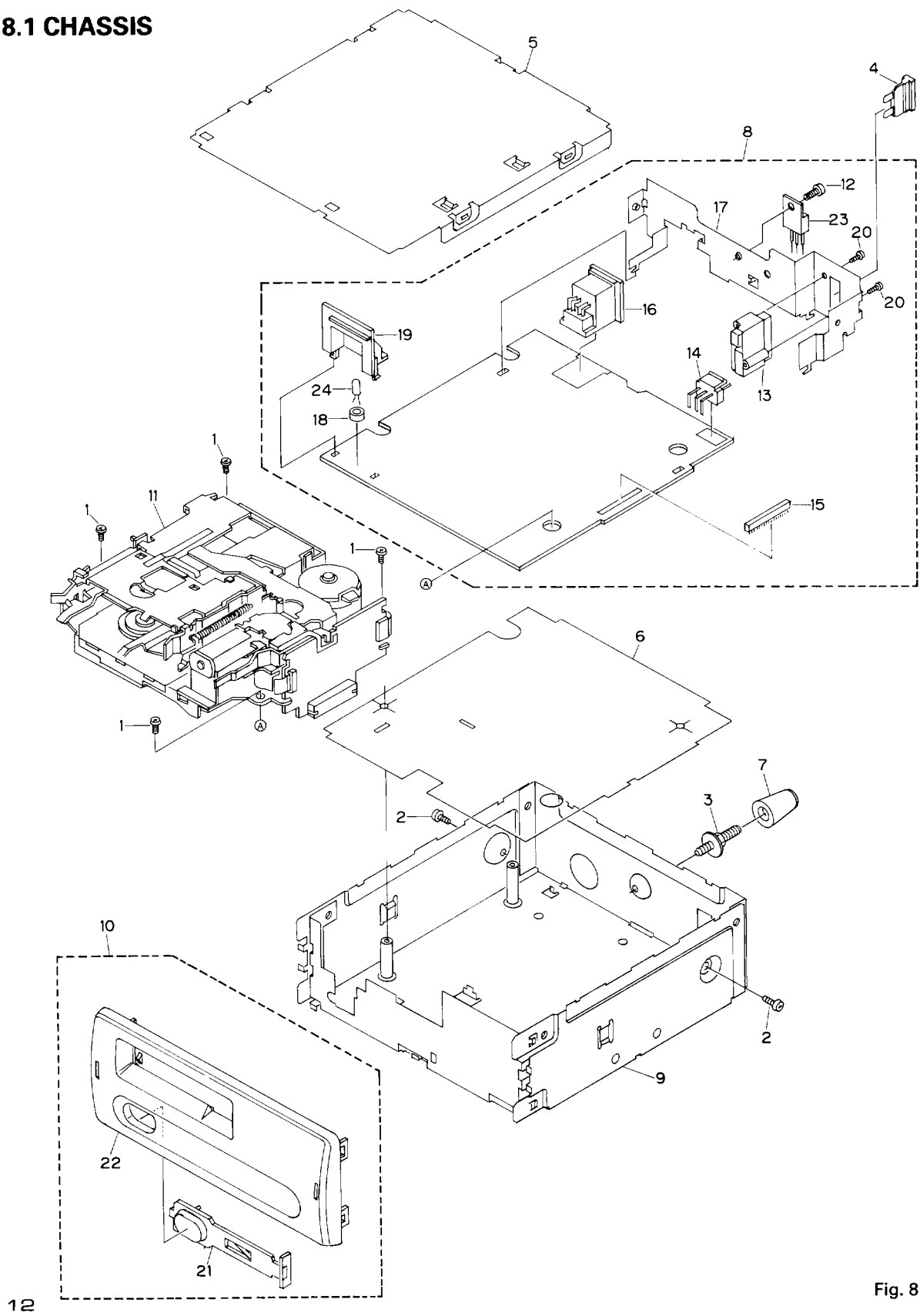


Fig. 8

**NOTE:**

● Parts marked by “\*” are generally unavailable because they are not in our Master Spare Parts List.

**● Parts List**

Mark No.	Description	Part No.
1	Screw	BMZ26P050FMC
2	Screw	BMZ30P040FMC
3	Screw	CBA1284
4	Fuse	CEK1005
5	Case	CNB1774
6	Insulator	CNM3849
7	Bush	CNV4077
8	Cassette Deck Unit	CWM3732(KPX-1056ZRN/WL) UWM3732(KPX-1056ZRN/X1B/WL)
9	Chassis Unit	CXA6117
10	Grille Assy	CXA6150(KPX-1056ZRN/WL) UXA6150(KPX-1056ZRN/X1B/WL)
11	Cassette Mechanism Module	EXK3010
12	Screw	BMZ30P050FMC
13	Auto Fuse Holder	CKR1011
14	Plug	CKS2372
15	Connector	CKS2752
16	Connector	CKS3180
17	Shield	CNC5083
18	Spacer	CNM1642
19	Cover	CNV4166
20	Screw	PPZ20P060FMC
21	Button	CAC4833
22	Grille Unit	CXA9346
23	IC(IC952)	NJM2930
24	Lamp(IL951)	CEL1415

8.2 CASSETTE MECHANISM MODULE

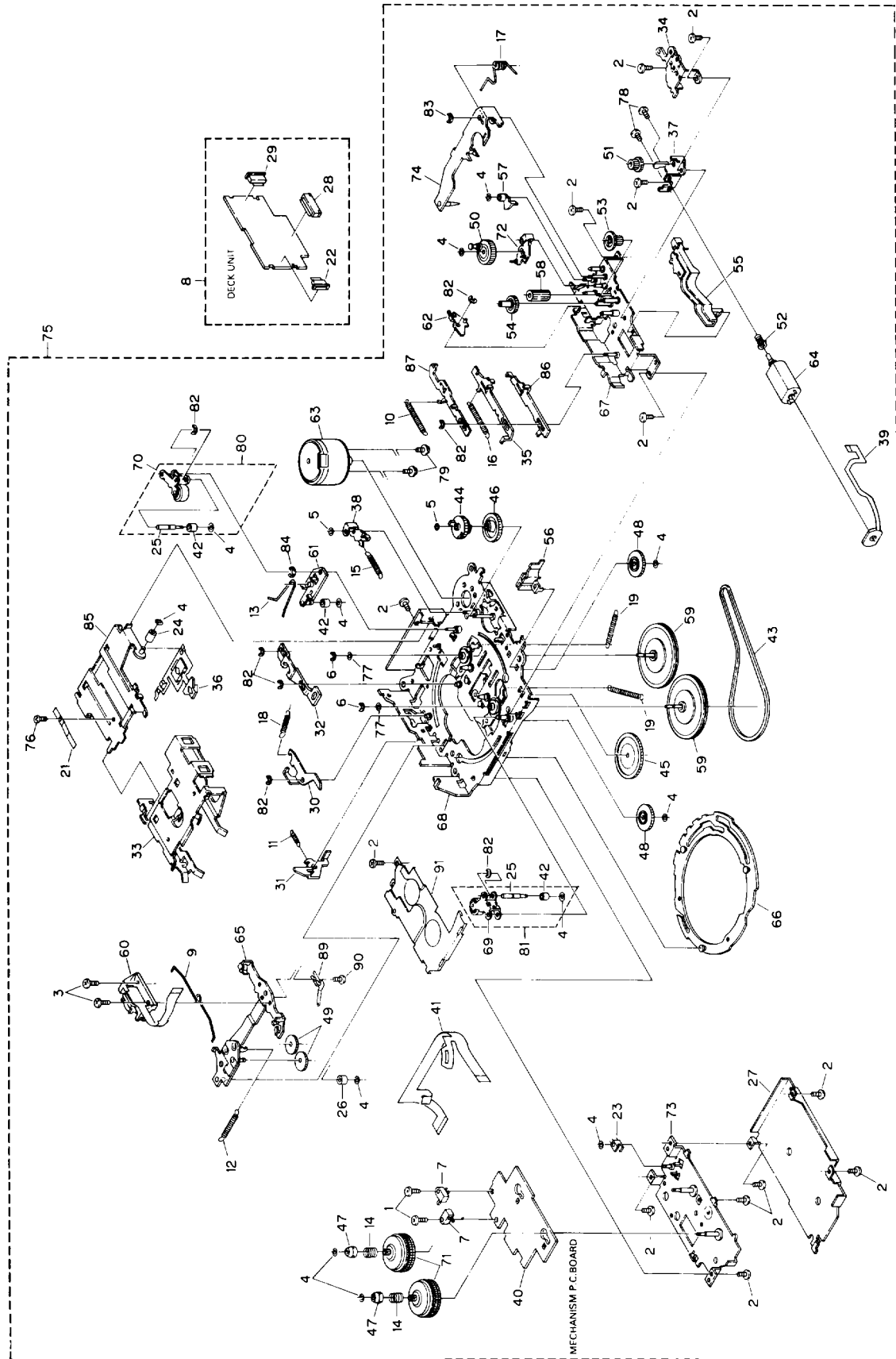


Fig. 9

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ20P060FMC	46	Gear	ENV1348
2	Screw	BSZ20P040FMC	47	Collar	ENV1349
3	Screw(M2x4)	CBA1015	48	Gear	ENV1350
4	Washer	CBF1037	49	Gear	ENV1351
5	Washer	CBF1038	50	Gear	ENV1354
6	Washer	CBG1003	51	Gear	ENV1355
7	Switch	CSN1022	52	Gear	ENV1357
8	Deck Unit	CWM3792	53	Gear	ENV1358
9	Spring	EBH1458	54	Gear	ENV1359
10	Spring	EBH1434	55	Clamper	ENV1360
11	Spring	EBH1435	56	Clamper	ENV1361
12	Spring	EBH1437	57	Arm	ENV1362
13	Spring	EBH1464	58	Gear	ENV1363
14	Spring	EBH1439	59	Flywheel	ENV1410
15	Spring	EBH1440	60	Head Assy	EXA1301
16	Spring	EBH1441	61	Arm Unit	EXA1276
17	Spring	EBH1442	62	Arm Unit	EXA1277
18	Spring	EBH1443	63	Motor Unit	EXA1335
19	Spring	EBH1446	64	Motor Unit	EXA1279
20	.....		65	Head Base Unit	EXA1340
21	Spring	EBL1016	66	Gear Unit	EXA1281
22	Connector(CN252)	CKS2127	67	Guide Unit	EXA1356
23	Photo-Interrupter	EGN1002	68	Chassis Unit	EXA1339
24	Roller	ELA1281	69	Pinch Roller Unit	EXA1284
25	Shaft	ELA1282	70	Pinch Roller Unit	EXA1285
26	Roller	ELA1283	71	Reel Unit	EXA1306
27	Cover	ENC1307	72	Arm Unit	EXA1338
28	Connector(CN251)	CKS1711	73	Sub Chassis Unit	EXA1312
29	Connector(CN253)	CKS2129	74	Arm Unit	EXA1289
30	Arm	ENC1310	75	Spare Unit	EXA2007
31	Arm	ENC1311	76	Screw	HBA-147
32	Lever	ENC1312	77	Washer	HBF-179
33	Holder	ENC1365	78	Screw	JGZ20P025FNI
34	Cover	ENC1372	79	Screw	EBA1031
35	Lever	ENC1315	80	Pinch Roller Assy	EXX1037
36	Lever	ENC1353	81	Pinch Roller Assy	EXX1038
37	Bracket	ENC1317	82	Washer	YE15FUC
38	Arm	ENC1335	83	Washer	YE20FUC
39	P.C.Board	ENP1109	84	Washer	YE25FUC
40	P.C.Board	ENP1106	85	Frame Unit	EXA1290
41	P.C.Board	ENP1119	86	Lever	ENC1308
42	Roller	ENR1023	87	Lever	ENC1309
43	Belt	ENT1027	88	.....	
44	Gear	ENV1346	89	Spring	ELB1020
45	Gear	ENV1347	90	Screw	JFZ17P025FNI
			91	Cover	ENC1351

9. PACKING METHOD

● Parts List

Mark No.	Description	KPX-1056ZRN/WL	KPX-1056ZRN/X1B/WL
		Part No.	Part No.
*	1 Polyethylene Bag	CEG1201	UEG1201
*	2 Contain Box	CHL2651	UHL2651
*	3 Protector(Lower, Upper)	CHP1716	UHP1716
*	4 Protector(Side)	CHP1717	UHP1717
*	5 Protector(Inner)	CHP1842	.....
*	6 Protector(Unit)	CHP1843	.....
*	Protector(Inner)	.....	UHP1718